

Print

PO No	Supplier	Line No	Rel No	Terms	Purchased Item	Description	Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Past Days
PO040069	VU	4	1	Net 30	M304TR1.250W.125 304 Round Tube 1.250 X .125W MATERIAL: AISI 304/316 SS SEAMLESS ROUND TUBING AS PER ASTM A213 OR ASME SA213 OR ASTM A269 receive ft					24	6/11/2018	20		S078807	Stock	6/7/2018	\$ 6.15 / ft	0
Total:											24	20						

Plex 6/7/2018 7:33 AM Dart Dubois.Pascal

Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada
Tel (613) 632-5200



PURCHASE ORDER

PO040069

Supplier:

TWM001-VU
PO Box 933014
Atlanta, GA 31193-3014 USA
Phone: 585 768 5600
Fax: 585 768 5601

Ship To:

1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No:

PO040069
5/31/18
6/11/18

PO Date:

Purchase Order

Revision:

Revision Date:

Ship-To Contact:

Lavoie, Chantal
Phone: clavoie@dartaero.com

Via:

Ground

Pymt Terms:

Net 30

Special Comments:

E-MAILED
MAY 31 2018

Line	Item	Part	Supplier	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1		M2024T3T1.000W.065		2024T3 Tubing 1" OD x 0.65" Thick	Firmed	6/11/18	360 ft	0 ft	360 ft	\$7.50/ft	\$2,700.00

Line Item Note

MATERIAL: 2024-T3 SEAMLESS ALUMINUM TUBING
SPECIFICATION: WW-T-700/3, AMS 4088
OR AMS-WW-T-700/3 OR ASTM B210

2		M304TR0.500W.035		304 Round Tube .500 X .035W	Firmed	6/11/18	24 ft	0 ft	24 ft	\$1.8422/ft	\$44.21
				304/316 SS SEAMLESS ROUND TUBING AS PER ASTM A213 OR ASME SA213 OR ASTM A269 receive ft							
3		M304TR0.750W.049		304 Round Tube .750 X .049W	Firmed	6/11/18	100 ft	0 ft	100 ft	\$2.579/ft	\$257.90
				304/316 SS SEAMLESS ROUND TUBING AS PER ASTM A213 OR ASME SA213 OR ASTM A269 receive ft							
4		M304TR1.250W.125		304 Round Tube 1.250 X .125W	Firmed	6/11/18	24 ft	0 ft	24 ft	\$6.15/ft	\$147.60
				304/316 SS SEAMLESS ROUND TUBING AS PER ASTM A213 OR ASME SA213 OR ASTM A269 receive ft							

DAS
11
9-89

JUN 07 2018

Line	Item	Part	Supplier	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
5		M6061T6T1.000W.188		6061T6 Round Tube 1.00 X .188W : MATERIAL: 6061- T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/8 OR QQ-A-200/8 OR QQ- A-225/8 OR AMS 4080 OR AMS 40 82 OR AMS 4083 OR ASTM B210 OR ASTM B241 receive ft	Firmed	6/11/18	36 ft	0 ft	36 ft	\$6.75/ft	\$243.00
Grand Total: \$3,392.71											

Order Notes

Procurement Quality Clauses
A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dart Aerospace.com for further explanation.

www.dartaerospace.com for further explanation.

Plex 5/31/18 11:52 AM dart.lavoie.chantal

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 17304TR-250W.120 DATE: JUN 07 2018
 PO / BATCH NO.: 040069/502807

MATERIAL CERT REC'D: yes QUANTITY RECEIVED: 201
 QUANTITY INSPECTED: 201 QUANTITY REJECTED: 0
 THICKNESS ORDERED: W.125 THICKNESS RECEIVED: W.120
 SHEET SIZE ORDERED: N/A SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y	
CORRECT FINISH	<input checked="" type="radio"/> Y	
CORROSION	<input checked="" type="radio"/> Y	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	
CORRECT THICKNESS	<input checked="" type="radio"/> Y	
PHOTO REQUIRED	<input checked="" type="radio"/> Y	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.				
RECORD RESULTS BELOW	HRC	HRB	DUR A	DUR D
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

Testers located in the Quality Office

QC 18 INSPECTION ENGINEERING SIGNOFF (if required)

INSPECTED BY: DAS SIGNED OFF BY: _____

DATE: 11 JUN 07 2018 DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS SEAMLESS ROUND TUBING
 SPECIFICATION: ASTM A213 OR ASME SA213 OR ASTM A269

WALL THICKNESS TOLERANCE PER ASTM A269 AS FOLLOWS:

OD (IN)	PERMISSIBLE	PERMISSIBLE
UP TO 1/2	OD TOL. (IN)	WALL TOL.
1/2 TO 1 1/2, EXCL.	±0.005	±15%
1 1/2 TO 3 1/2, EXCL.	±0.005	±10%
3 1/2 TO 5 1/2, EXCL.	±0.010	±10%
5 1/2 TO 8, EXCL.	±0.015	±10%
	±0.030	±10%

PART NUMBER:

M304TR/D.DDD/W.TTT

WHERE "D.DDD" = OUTSIDE DIAMETER IN INCHES
 AND "W.TTT" = WALL THICKNESS IN INCHES

EG. 0.375" OD X 0.065" WALL TUBING = M304TR0.375W.065

RELEASED
 09/18/23 HAD

B	REFORMAT DWG, ADD SPECS (2N DB-1).	CP	08.10.20
A	NEW ISSUE	DS	01.06.08
REV	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR			
APPROVED			
DE APPR			
DATE	08.10.20		

DART AEROSPACE LTD		REV. B
HAWKESBURY, ONTARIO, CANADA		SHEET 1 OF 1
DRAWING NO.	M304TR	SCALE
TITLE	304/316 ROUND TUBING	NTS
CONTRACT 030801 BY DART AEROSPACE LTD		



O'Neal High-Performance Metals Group

Packing Slip



ORDER NO.: 60657780 FROM: CRAN

PAGE 1

CUST NUMBER: 1203820 NET WGT: 28.958 REQ. DATE: 06/08/18 CONFIRMED

SOLD TO: DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON CANADA
SHIP TO: DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON ONTARIO CANADA
SHIP BY: 06/04/18
VIA: COMMON CARRIER
FREIGHT: PREPAID
RELEASE NO.:
RECEIVING PHONE:
LINE ITEM DESCRIPTION 0001 37241 SMLS CD 304/L A269 1-1/4 X .120WA

SALES PERSON: DONNA SMALLEY
TERMS: NET 30 DAYS
F.O.B.: SHIPPING POINT
CUST ORD NO.: P0040069 IT 4

CLN# ORD QTY INVOICE QTY SHIPPED QTY
24.000 FT 20.000 FT 20.000 FT
PCS WT 28.958
LENGTH 20 FT

** 1 TEST REPORTS REQUIRED **
** 1 CERTS REQUIRED **
ECN: 2B999.g
PO: 49373797 HT: YX1108594
MLT: CHINA
Export License: NLR
CUSTOMER QTY: SLB/CL: 12-47
Expiration Date: 0/00/00
UOM

BROKERS KUEHNE AND NAGEL LTD

AREA TYPE OF PKG PKGS GRS WEIGHT WIDTH LENGTH HGT
NEW PEN CARTON 1.000 48.958 2.000 248.0000 2
Orders In Package - 1
Box No - TWPK18018041
UNLOAD TYPE: NONE SPECIFIED
DATE FILLED

BY: TEMP02
RT 000-

DATE SHIPPED

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE
PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL
REVIEW.
http://www.twmetals.com/invoice-terms.html



O'Neal High-Performance Metals Group



Packing Slip

ORDER NO.: 60657780 FROM: CRAN PAGE 2

CUST NUMBER: 1203820 NET WGT: 28.958 REQ. DATE: 06/08/18 CONFIRMED

SOLD TO: DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON
CANADA
SHIP TO: DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON
ONTARIO CANADA
CN K6A 1K7

SALESPERSON: DONNA SMALLEY
NET 30 DAYS
F.O.B.: SHIPPING POINT
CUST ORD NO.: P0040069 IT 4
VIA: COMMON CARRIER
FREIGHT: PREPAID
RELEASE NO.:
RECEIVING PHONE:

"TW Metals MSDS data is available on our web site at www.twmetals.com. MSDS data can be found under the Technical Resources Tab, Product Statistics & Data and the TW Metals MSDS's heading. If you do not have web site access you may telephone 610-458-1300 and we will mail or fax a copy of our current MSDS data to your location."

"CERTIFICATE OF CONFORMANCE"

"TW Metals certifies that the material supplied on this purchase order and contained in the heat/lot number referenced above has been manufactured, inspected, and tested in accordance with the material specification. These records are on file at TW Metals. Packaging material for shipments to Europe and China consists of manufactured wood products and complies with the European emergency measures for confierous non-manufactured wood packing material"

Electronically Generated Certificate-Valid without signature Date: 5/31/18

These commodities have been exported from the United States in accordance with the U.S. export control laws, export administrations regulations. Diversion contrary to U.S. law prohibited.

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL REVIEW.
<http://www.twmetals.com/invoice-terms.html>

PURFA™

Producer of Premium Stainless Steel Seamless Tubes

MILL TEST REPORT

Purchaser: TW METALS-Cranbury		Certificate No.: 2018-1-95		Date of Issue: 2018.1.3	
Commodity: Stainless Steel Seamless Tubes		Specifications: ASTM A213-17/ASME SA213-15/ASTM A269-15a BAW			
Process: Cold Drawn		Delivery Condition: OD Polished to 240 Grit			
Steel Grade	TP304/TP304L	Heat Number	YX1108-594	Lot Number	12-47
Dimensions		1-1/4"x0.120"x20"			
Quantity	500	Pieces	25		

Element	C	Mn	P	S	Si	Cr	Ni	Mo	Co
Requirements	≤0.035	≤2.00	≤0.045	≤0.030	≤1.00	18.00-20.00	8.00-12.00	-	-
Ladle Analysis	0.019	0.66	0.032	0.002	0.35	18.25	8.09	-	-
Product Analysis	0.021	0.66	0.034	0.002	0.34	18.49	8.14	-	-

Mechanical Properties									
Test Item	Elongation (% in 2")	Tensile Strength (PSI)	Rm	Yield Strength (PSI)	RP / 0.2%	Flattening Test	Flattening Test	F.M.L. Test	
Requirements	≥35	≥75,000	92,000/93,000			Passed	Passed	OK	
Test Results	63/64					e=0.09			
Test Item	Reduction of Area Z (%)	Hardness	Cold Bend Test	Flaring Test	Flaring Test	Flattening Test	Flattening Test	F.M.L. Test	
Requirements		HRB≤80		22%		e=0.09			
Test Results		75/77				Passed			
Test Item	Eddy Current Test	Air Underwater Pressure Test	Ultrasonic Test	Corrosion Test	Intergranular	Macroscopic Inspection	Appearance	OK	
Requirements	ASTM E 426			ASTM A262 E		End Cut	OK		
Test Results	Passed								

PED Certified by SZUTEST 2195-PED-1526002

CANNOT CERTIFY COMPLIANCE FAR BAA / DFARS BAA / FAR TAA



By:

James Shi

James Shi / Manager

Quality Control Department

Jiangsu Pufa Stainless Steel Tube Co., Ltd.

No. 99, Xuean Middle Road, Dongchen Town, Rugao City, Jiangsu Province, P.R.China

TW METALS	ACCEPTED BY	Eric T.
	FEB 19 2018	

We hereby certify that this report is true and correct

- Additional Remarks:
- (1) All tubes annealed to above 1900 Deg F and water quenched below 800 Deg F in 3 minutes
 - (2) All tubes tested per ASTM A1016-17
 - (3) Materials is NACE MR0103-2007 compliant (per Section 2.5)
 - (4) Materials is NACE MR0175/ISO 15156-2003 compliant (per Section 4.2.1)
 - (5) In Compliance with EN 10204-3.1
 - (6) In Compliance with RoHS Stipulation
 - (7) No weld repair performed
 - (8) Free from mercury contamination
 - (9) Free from radioactive contamination
 - (10) Billets melt and pipes/tubes manufactured in China
 - (11) All tubes 100% PMI tested
 - (12) All tubes 100% Eddy Current tested